



< **DIGITAL SENSOR**
 MEASURES BOTH TEMPERATURE
 AND MOISTURE LEVELS,
 PROVIDES PRECISE FEEDBACK READING
 REGARDING SNOW AND ICE CONDITIONS

SAFETY, COMFORT, CONSERVATION



SNOW MELTING SOLUTIONS

**FOR
 CONCRETE,
 ASPHALT,
 AND
 PAVING STONES**



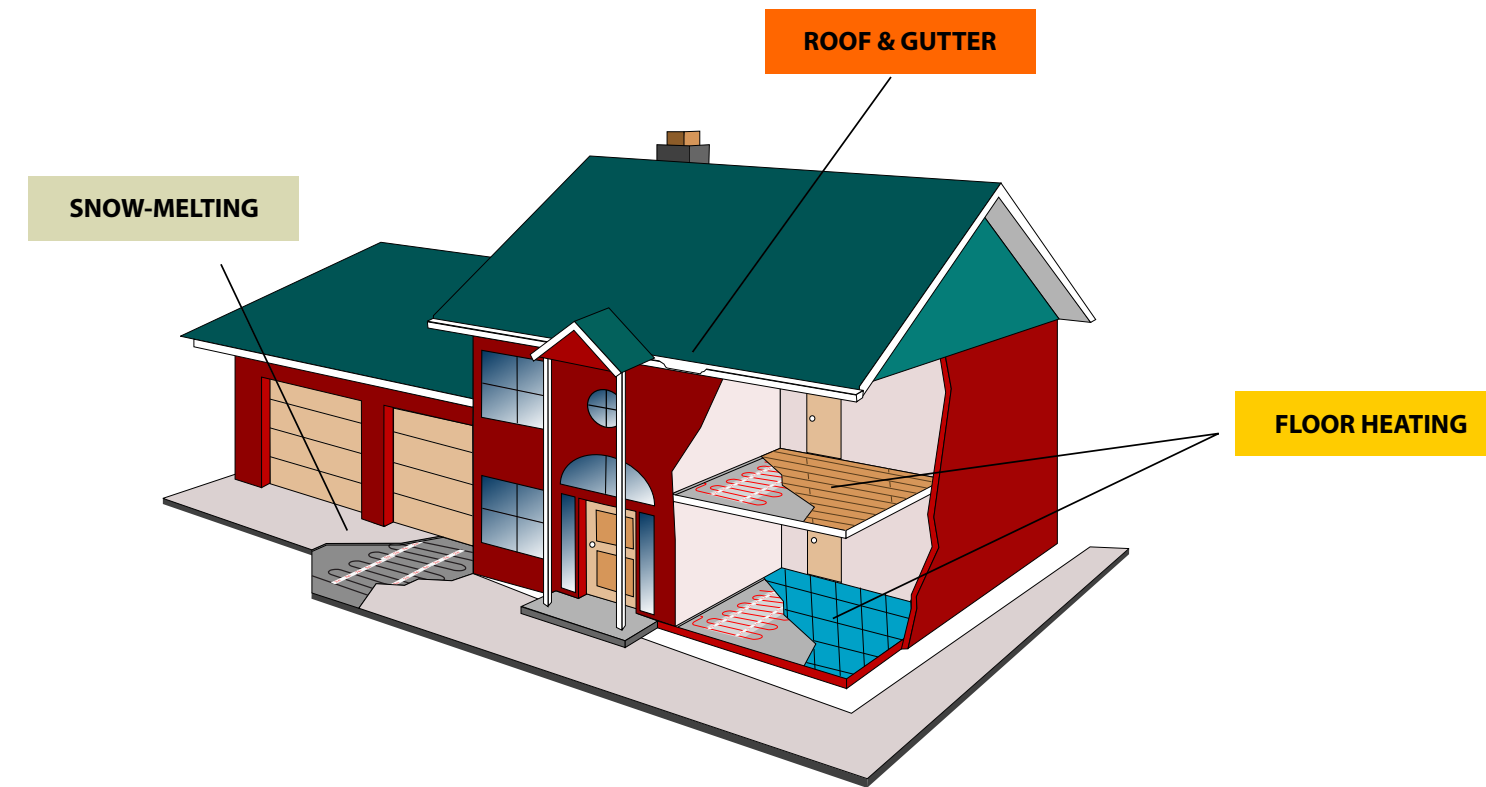
Dual Zone Electric Snow and Ice Melting Systems

Dual zone features

- **Load prioritization - for limited power situations.**
 You can prioritize between zones, eg. if you have limited power output, one zone is made ice and snow free before focus is put on the other zone.
- **Energy savings**
 The GX 850 lets you divide your area into two zones, eg. a North and South side. The South side will be free of ice and snow faster because of the heat from the sun, allowing the system to only use power on the North side.
- **Combine different zones**
 The GX 850 can integrate four separate sensors, in two zones, keeping your roof and gutters plus your pavement free of ice and snow.

Other features

- The info-button will guide you through the menus and settings.
- View the actual temperature and moisture level measured by the sensors.
- Adjustable operation mode: Automatic, constant on, and constant off.
- Adjustable parameters: Melting temperature, standby temperature, moisture sensibility, post heating period.
- The intelligent, digital sensors reduce energy consumption and give an optimal performance. The sensors are easy to install and designed for rough weather and heavy traffic loads.
- **Fault finding program**
 The GX 850 has a self diagnosing program, which will detect system faults and sound an alarm.
- External alarm capabilities
- **RS232 enabled.**
 Connect the GX 850 to a computer when a software upgrade is available.



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Electric Snow and Ice Melting Systems

- Walkways
- Driveways
- Ramps
- Parking Lots
- Bridges
- Landing Pads
- Decks/Courtyards
- and many other applications...

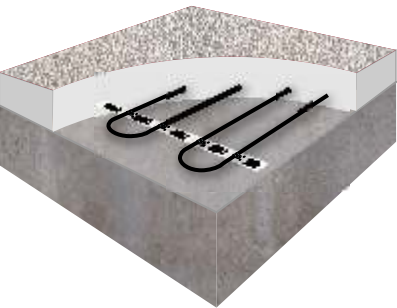
WINTER WEATHER IS A FACT OF LIFE. Sudden snow storms and cold snaps can cause serious problems for people, traffic, and buildings. Considerable resources are spent on chemicals and snow removal efforts to keep outdoor areas free from snow and ice.

DANFOSS GX SYSTEM
Installing a Danfoss GX snow melting system provides a permanent solution to the problems caused by cold weather. The system is designed for a wide variety of surface materials including concrete, asphalt, and paving stones. Improve safety by providing instantaneous relief from snow and ice and increase your bottom line by reducing the cost associated with applying chemicals, owning snow clearing machinery or hiring an outside service.

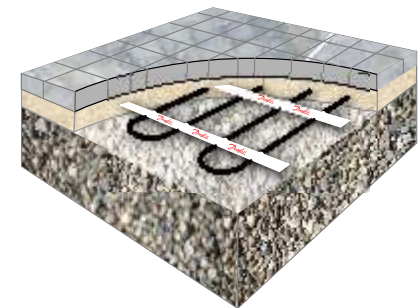
- BENEFITS**
- > IMPROVED SAFETY
 - > ENVIRONMENT CONSERVATION
 - > SURFACE PROTECTION
 - > CONVENIENCE & COMFORT

TYPICAL APPLICATIONS

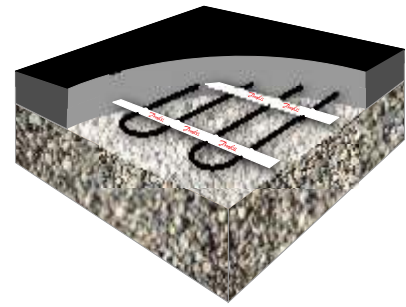
CONCRETE INSTALLATION
Fasten the mat to the rebar or reinforcing mesh. There should be a minimum of 2" and max 4" of concrete covering the heating cables.



STONEMWORK
Install the heating cable close to the bricks or stone tiles, typically in a layer of sand (1" / 2.5cm).



ASPHALT
Cover the cables directly with a layer (2" / 5cm) of asphalt. Refer to the installation manual for maximum temperatures/ technical data.



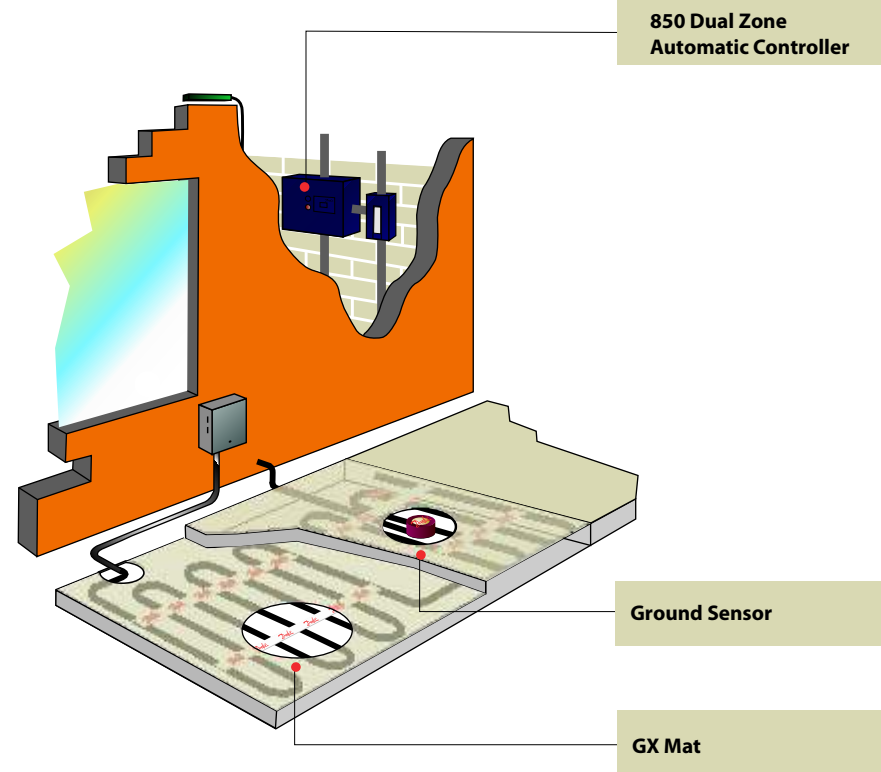
Note: cables can be embedded in sand or concrete (1" / 2.5cm), for extra protection.

WARRANTY

The GX components are made with durable materials that will stand up to the harshest job site conditions. The cable sheathing is made from durable PVC materials and the mat tapes are made with reinforced fiberglass. We are so confident in our products that we offer a 10-year warranty on all our GX mats, and a 2-year warranty on controls and sensors.



SYSTEM COMPONENTS



850 Dual Zone Automatic Controller

Ground Sensor

GX Mat

SIMPLE TO INSTALL



1

The Danfoss GX mat system was designed with the installer in mind. The GX mat is pre-installed with the correct center-to-center distances on a roll to **reduce installation time by as much as 70%**.

The mat is made with a twin conductor which means only one power lead for the installer to connect. The system emits no EMFs (Electro Magnetic Fields).

2

Attach mat/cable to the rebars or wire mesh using tie wraps



3

Install ground sensors at opposite ends of the area
Pour concrete



4

Total Control!

Prepare the area, insulation below and on the sides of the slab to be heated is recommended



Automatic Energy Savings!

The real **strength** of the Danfoss GX snow melting system is in the intelligent GX 850 Dual Zone Automatic Control Panel (ACP). The GX850 ACP is like a mini weather station monitoring your system 24 hours a day. Collecting temperature and relative humidity information from sensors embedded in the surface material, the GX850 ACP is able to accurately sense when to turn the system on and off - the snow never gets a chance to accumulate! The operating cost of a snow-melting system depends greatly on the severity of the winter. Our flexible GX850 ACP decreases your energy consumption by offering adjustable, automatic system control and eliminating costly 'cold-starts' (as compared with manual systems). The savings are automatic!

Install ACP, wire power, mats, and sensors and Stay in Control!

Why Danfoss GX?

Total Control, Easy Installation, Energy Efficiency



GX MAT
Ease of Installation!

Voltage: 208V, 240V, 277V, 347V, 480V, 600V

Power Output: 50W/sq.ft. (mats), 12W/ft. (cables)

Cable Diameter: 1/4"



- Mat system (reduces installation time)
- Simply roll along rebar or reinforcing mesh
- Cut tapes to turn mat as required
- Also available as loose cable

GX 850 DUAL ZONE AUTOMATIC CONTROL PANEL (ACP)
The BEST in the Industry!

Voltage: 208V, 240V, 277V, 347V, 480V, 600V

Max Load: 60A

Enclosure Type: NEMA4X

Dimensions (HxWxD): 10.5" x 13.5" x 7.5"



- Automatic control with digital sensors
- Fully adjustable set points
- Provides instant snow melting response
- Conserves energy

Stay in Control!

DS-2B RAIN/SNOW SENSOR CONTROLLER
Economical Solution!

- Automatic activation - lower snow melting costs
- Reliable snow and / or rain detection
- Full 30A @ 240VAC control
- Replaceable, inexpensive precipitation sensor head

Voltage: 120/240 VAC, Field Selectable.

Max. Load: 30A @ 240VAC, 100,000 operations min. at full load

Dimensions (H x W x D): 4 3/4" x 7" x 2 3/4" (121 x 178 x 70 mm)



DIGITAL SENSORS
Highest Accuracy!



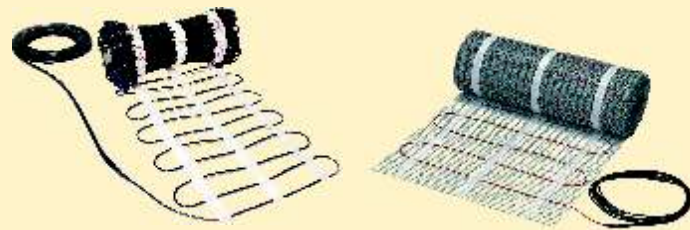
- Used in conjunction with GX850 automatic controller
- Digital sensors with built-in microprocessor provide precise feedback regarding snow and ice conditions
- Measures both temperature and moisture levels

Electric Cable Heating Solutions

Danfoss heating systems deliver a safe and healthy way of heating homes. We offer a one stop solution to floor heating, snow melting, pipe tracing, and roof and gutter needs.



Danfoss PX Trace Cable

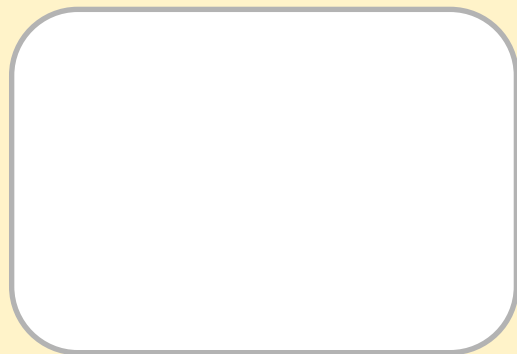


Danfoss GX Snow Melting Mat

Danfoss LX Self-Adhesive Mat



Distributed By:



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Why Danfoss GX?

GX 850 DUAL ZONE AUTOMATIC CONTROL PANEL **The BEST in the industry!**

- User interface allows total control of snow melting system set points
- Set to maximum melting or maximum energy savings or anywhere in between
- Dual zone feature allows for energy savings and lower power draw
- Digital sensors provide precise feedback on snow and ice conditions
- Fault finding program detects and alarms on faults
- Can be field upgraded to take advantage of new features
- Two year warranty



ELECTRIC SNOW MELTING PANELS **Contactor & Timer Panels**

The Danfoss Contactor and Timer Panels are primarily designed for snow and ice melting applications. All panels are pre-wired and UL listed complete with a NEMA 1 enclosure, wiring diagram, terminal connection block, timer (timer panels), and two or four 3 pole contactors. Timer panels can be used stand alone or in conjunction with an automatic controller. Contactor panels must be used in conjunction with an automatic controller.

- Low cost
- Simple installation
- NEMA 1, UL listed panel box
- Heat on- indicator light
- Pre-wired terminal connections
- Two year warranty



NOW AVAILABLE WITH GFI PROTECTION!

GX MATS AND CABLES **Ease of Installation!**

Total Control, Easy Installation, Energy Efficiency

- Twin conductor cable
- Single point connection
- Easy and flexible installation
- Durable construction
- Silent, efficient, and safe
- Ideal for driveways, parking lots, sidewalks, stairs, ramps, bridges and many other applications
- For use in concrete, asphalt, and under pavers
- Zero EMF's (Electromagnetic fields)
- Heating mats significantly reduce installation time
- Genuine ten year non-prorated warranty



DS-2B/DS-5 SNOW MELT CONTROLLERS **Economical Solution!**

- Housed in a weatherproof enclosure
- Adjustable temperature trigger point
- Adjustable delay off drying time
- Selectable low temperature cutoff
- Manual override
- Remote control and monitor capabilities
- Two year warranty



DIGITAL SENSORS **Highest Accuracy!**

- Used in conjunction with the GX 850 Dual Zone Automatic Controller
- Digital sensors with built-in microprocessor provide precise feedback regarding precipitation and temperature



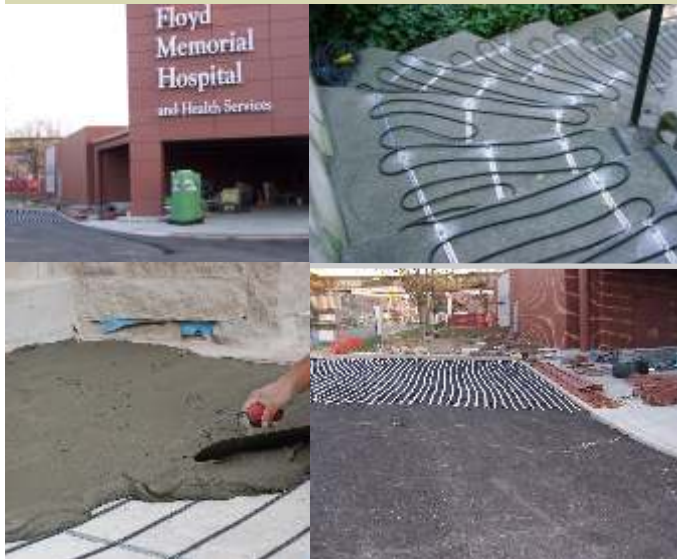
Danfoss GX
 BRINGING WARMTH TO LIFE

Electric Snow and Ice Melting Systems

Snow Melting Solutions



**FOR
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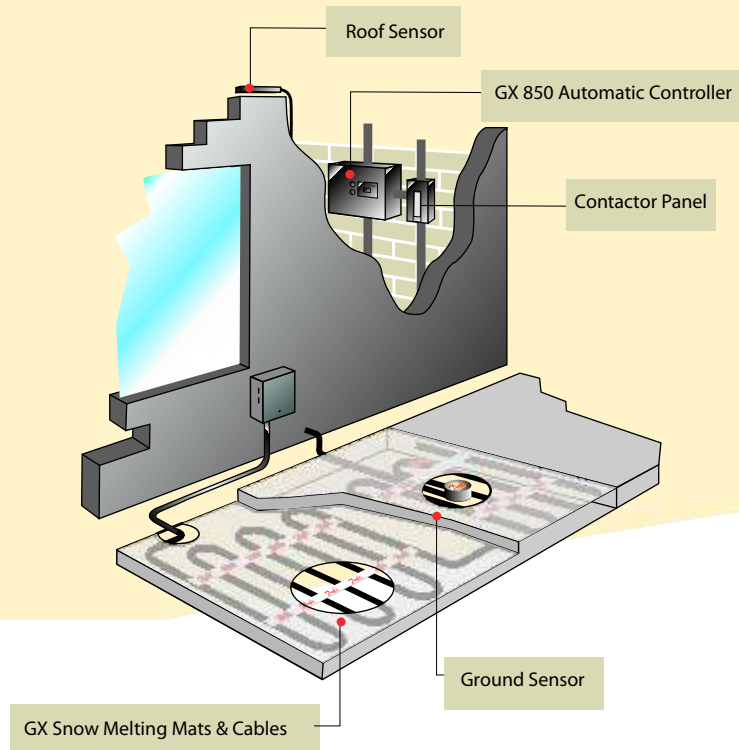


The Installer's Edge

DANFOSS GX SYSTEM

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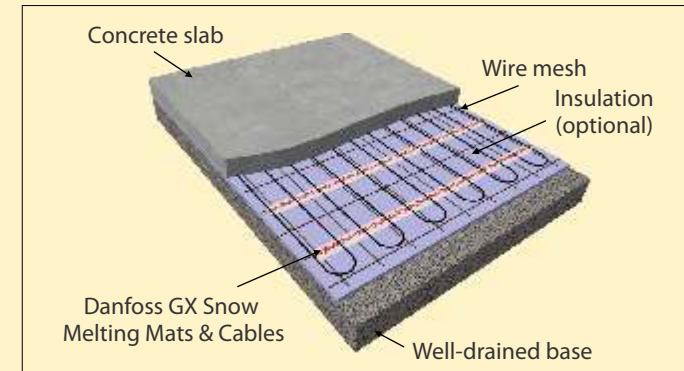
System components



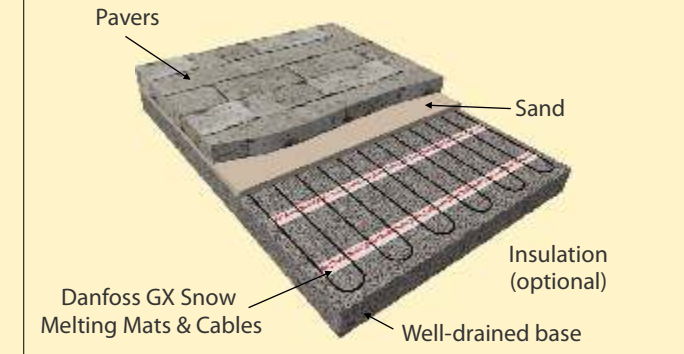
Typical Applications

TYPICAL APPLICATIONS

Concrete



Stonework



Asphalt



The Right Choice

TYPICAL COST TO OPERATE

To estimate the typical cost to operate a Danfoss GX snow melting system you will need the following information:

- Area of driveway in square feet
- Watts per square foot
- Kilowatt-hour rate charge for your area
- Operational hours

Example:

600 (sq/ft) X 37 (watts/sq. ft) = 22,200 watts

22,200 watts/1000 = 22.2 kilowatts

22.2 kilowatts/per operational hour X .08 (cost per kilowatt-hour) = \$1.78 per operational hour X 5 hours of operation = \$8.88 (approximate cost per snowfall)

Think Green

Renewable energy such as wind, solar and hydro will become the front runners of energy production as fossil fuels become scarce.

Making your home "green" by converting to electric radiant heat will keep you steps ahead in the future transition of new efficient and environmentally friendly energy sources.

Danfoss GX snow melting systems do away with snow plows, snow blowers and chemicals that leave an adverse effect to your landscaping and the environment.

Warranty

GX components are made with durable materials that will stand up to the harshest job site conditions. The cable jacket is made from durable PVC materials and the mat tapes are made with reinforced fiberglass. We offer a ten-year warranty on all our GX mats, and a two-year warranty on controls and sensors.